

## 中国蕨类植物小志

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## NOTES ON SOME CHINESE FERNS

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## 中间金毛裸蕨 新变种

**Gymnopteris marantae** (Li) Ching var. **intermedia**, Ching, var. nov. *G. delavayi* (Bak.) Underw. × *G. marabate* (L.) Ching.

A typo speciei differt pinnis inferioribus tantum pauci-pinnatifidis apice caudatis, segmentis 1—3-jugis praeditis, pinnis supremis ut in *G. delavayi* (Bak.) Underw. integris, stipite pilis articulatis nullo vel perpaucis, sed sparse paleaceo, costis supra glabris.

Beijing (北京): Baihua Shan (百花山); 3. VIII. 1957, Chu B5 (typus).

Hebei (河北): Laiyuan (涞源), Hebe Hygienic Station, s. n. 1961.

Shanxi (山西): Wutai Shan (五台山), alt. 2000 m, 1959, Kuan et Chen 2495, 656, 1755, on rock under forest; Lishan, alt. 2100 m, VII. 1955, Yellow River Bot. Exped. 2530.

Gansu: Yuchun, Hsiunglung Shan, 2. VII. 1963, C. T. Chuo (卓正大) 63—1000.

Shaanxi (陕西): Qinling (秦岭), south slope, Taibai Xian (太白县), alt. 1890 m. VIII. 1957, K. Y. Li 1175, 1219.

Xizang (Tibet) (西藏): Nyingchi (林芝) alt. 3040 m, 28. VII. 1956, Y. T. Chang et al. 1081.

本变种分布于我国华北、西北及西藏,不同于原种之点,在于仅下部羽片略为羽裂,顶部全缘尾状,上部羽片不分裂,全缘,叶柄不具有节的毛,但有疏鳞片,羽轴上面光滑。

## 狭叶金粉蕨 新种

**Onychium angustifolium** Ching, sp. nov.

Ex affinitate *O. moupinensis* Ching, a quo differt planta multo minore, frondibus anguste lineari-lanceolatis, minus divisis.

Species minima, tota planta ad 15 cm alta; rhizomate brevi repente, paleis atrobrunneis, e basi ovata lanceolatis, acuminatis dense vestito; frondibus approximatis, subdimorphis, sterilibus ca. 5—7 cm longis, basi 1 cm vel paulo ultra latis, lineari-lanceolatis, parte inferiore bipinnatis vel potius bipinnatifidis, superiore angustiore, attenuatis et simpliciter pinnatifidis; pinnis inferioribus 3—5-jugis, contiguus, valde

obliquis, ca. 8 mm longis, 3 mm latis, oblongo-linearibus, acutis, breviter petiolatis, pinnatis vel potius profunde pinnatifidis; segmentis 3—4 utrinque costae latere, ca 2 mm longis, 1 mm latis, late lanceolatis, acutis, integris, uninerviis; textura in sicco crassiuscule herbacea, pagina utrinque glabra, lamina fertili sterili longiore, 7—12 cm longa, 1—1.5 cm basi lata, stipite 5—6 cm longo tenuissimo, vix 0.5 mm crasso, glabro, stramineo suffulta, lineari-lanceolata, simpliciter pinnata cum parte inferiore bipinnata, supra medium apicem versus longe caudato-attenuata; pinnis inferioribus pinnatis, pinnulis ca. 4—5 utroque latere racheos, petiolatis, valde obliquis, alternis, 1.5—2 cm inter se distantibus, basalibus majoribus, 1.5—2 cm longis, ca. 4—5 mm basi latis, cuneatis, aeroscopice acutis, in segmenta linearia, 4—8 mm longa, 1 mm lata, acuminata, integra basin versus cuneata pinnatis; pinnis sequentibus sensim brevioribus, mediis furcatis, superioribus simplicibus, linearibus, segmentis pinnarum inferiorum conformibus; soris linearibus, 5—6 mm longis, apicibus segmentorum cuspidato-acutis sterilibus; indusio conformi, griseo-membranaceo, costulae medianae approximato, margine integro, persistente.

Sichuan(四川): Guan Xian (灌县), Qingcheng Shan (青城山), in exposed rock crevices, 6, XI, 1939, H. C. Chow (周鹤昌) 1188 (typus); Shifang (什邡), Kexuan Shan, 15, I, 1921, Specimen no. 44.

本种产四川西部灌县青城山, 略似宝兴金粉蕨, 但叶片为线状披针形, 略为一回疏羽裂, 极为突出。

#### 峨眉珠蕨 新种

**Cryptogramma emeiensis** Ching et Shing, sp. nov.

Species insignis, remote affinis *C. brunnonianae* Wall., a qua differt planta multo majore, robustiore, segmentis ultimis frondium sterilius apice acutissimis vel saepe acuminatis, venis apice in hydathodas anguste clavatas terminantibus, segmentis ultimis frondium fertilius latioribus, ad 2.5 mm latis.

Tota planta ad 24 cm alta; rhizomate craaso, erecto, apice cum basi stipitis paleis laete brunneis, membranaceis, lanceolatis integris sat dense oblecto; frondibus caespitosis, fertilibus sterilibus multo longioribus, stipite sterilius 5—8 cm longe, ca. 1.2 mm diametro, stramineo, subnitido glabroque; lamina ovato-oblonga, 5—6 cm longa, basi 3—4 cm lata, tripinnata; pinnis lateralibus 6—7-jugis, alternis, oblique adscendentibus, breviter petiolatis, basalibus sequentibus fere conformibus, ovato-oblongis, 2—3 cm longis, 1.2 cm latis, basi late cuneatis, apice obtusiusculis, bipinnatis; segmentis ultimis ellipticis, apice acutissimis vel acuminatis, uninerviis, venis apice in hydathodas anguste clavatas terminantibus; pagina frondis textura in sicco chartacea, utrinque glabra; fronde fertili stipite ad 15 cm vel ultra longo, glabro, stramineo suffulta; lamina ovato-oblonga, ad 8 cm longa, 4 cm lata, tripinnata; pinnis lateralibus 7—8-jugis, fere oppositis, petiolatis (petiolo ca. 3 mm longo); pinnis supremis simplicibus, mediis pinnatis, inferioribus 2-jugis bipinnatis; segmentis ultimis magnis, anguste oblongis, ad 5 mm longis, 2.5 mm latis, apice obtusis; soris maturis confluentibus, totam paginam inferiorem tegentibus; indusiis potius angustis, costulam non attingentibus.

Sichuan (四川): Mont Emei (峨眉), alt. 3000 m, 11, VIII, 1963, K. S. Hsing, K. Y. Long (邢公侠, 郎楷永) 117 (typus), on old stonewall.

本种产四川峨眉山金顶，略似喜马拉雅珠蕨，但形体远较强大，不育叶片的末回裂片为渐尖头，叶脉顶端的水囊呈狭棍棒状，能育叶的末回裂片较宽(达 2.5 毫米)。

### 云南旱蕨 新种

**Pellaea yunnanensis** Ching, sp. nov.

Ex affinitate *P. nitidulae* (Wall.) Bak., a qua differt planta majore, stipite glabro nudoque, lamina frondis ampliore, ambitu pentagona, textura herbacea, rachi perfecte laevi per totam longitudinem.

Tota planta ad fere 30 cm alta; rhizomate brevi, erecto, apice paleis fusco-brunneis, anguste lanceolatis, integris obtecto; frondibus fasciculatis, stipite ad 19 cm longo, 1.5—2 mm crasso, castaneo, nitido, tereti, ad basin sparse paleaceo, sursum ut tota planta glabra; lamina ovato-deltaidea, 9—12 cm longa, ca. 9 cm basi lata, acuminata, basi late cordata, tenuiter chartacea, obscure viridi, tripinnata; pinnis ca. 6 utroque, oppositis, obliquis, sessilibus, basalibus maximis, late deltaeideis, 4—6 cm longis, ca. 5 cm latis, acuminatis, basi rotundatis, breviter (ca. 2 mm longo) petiolatis, bipinnatifidis infra apicem pinnatifidis; pinnulis 5 utroque, alternis, parum obliquis, lateralibus superioribus quam inferioribus multo brevioribus, ca. 1.7 cm longis, 5 mm latis, oblongis, acuminatis, basi angustatis ad rachillam adnatis sed inferioribus 3-jugis pinnatifidis, non decurrentibus, superioribus confluentibus; pinnula basali inferiore maxima, 4 cm longa, 2 cm lata, acuminata, basi cuneata, sessili sed non adnata, profunde pinnatifida vel potius subpinnata; segmentis 4—5 utroque, obliquis, e basi latiore lanceolatis, acutis, mediis ad 2 cm longis, 3—4 mm latis, utrinque gradatim abbreviatis, basi in alam angustam confluentibus, integris vel infimis basalibus inciso-lobulatis, pinnulis superioribus brevioribus, similiter pinnatifidis, pinnulis supremis simplicibus, integris, sursum gradatim abbreviatis; pinnis sequentibus a infimis 3—3.5 cm remotis, ambitu et partitione conformibus sed minoribus; pinnis superioribus inferioribus similibus sed gradatim abbreviatis; nervis in segmentis pinnatis, nervulis 2—3-furcatis, obliquis, subtus visibilibus parumque elevatis; rachi costis costulisque subtus stipiti concoloribus, ubique glabris nudisque; soris secus margines segmentorum continuis; indusiis linearibus, continuis, fulvis, membranaceis, subintegris.

Yunnan centr (云南中部): 27, VI, 1938, C. Y. Wu (吴征镒) 10590 (typus).

本种产云南中部，略似旱蕨，但形体远较高大，叶柄光滑无毛，叶片大，五角形，草质，叶轴不具刚毛。

### 微齿凤丫蕨 新变型

**Coniogramme fraxinea** (Don) Diels f. **connexa** Ching, f. nov.

A specie typica differt pinnis aut pinnulis margine dentibus minutis obtusis sparsis.

Yunnan austr. (云南南部): Mengyang(勐养), Yunnan compiex Expedition (云南考查团), 7235 (typus), 1957, in shrubs under dense forest in moist place, alt. 950 m.

形体大小同原种，但羽片和小羽片边缘疏生微钝齿牙，产云南南部勐养林下。